



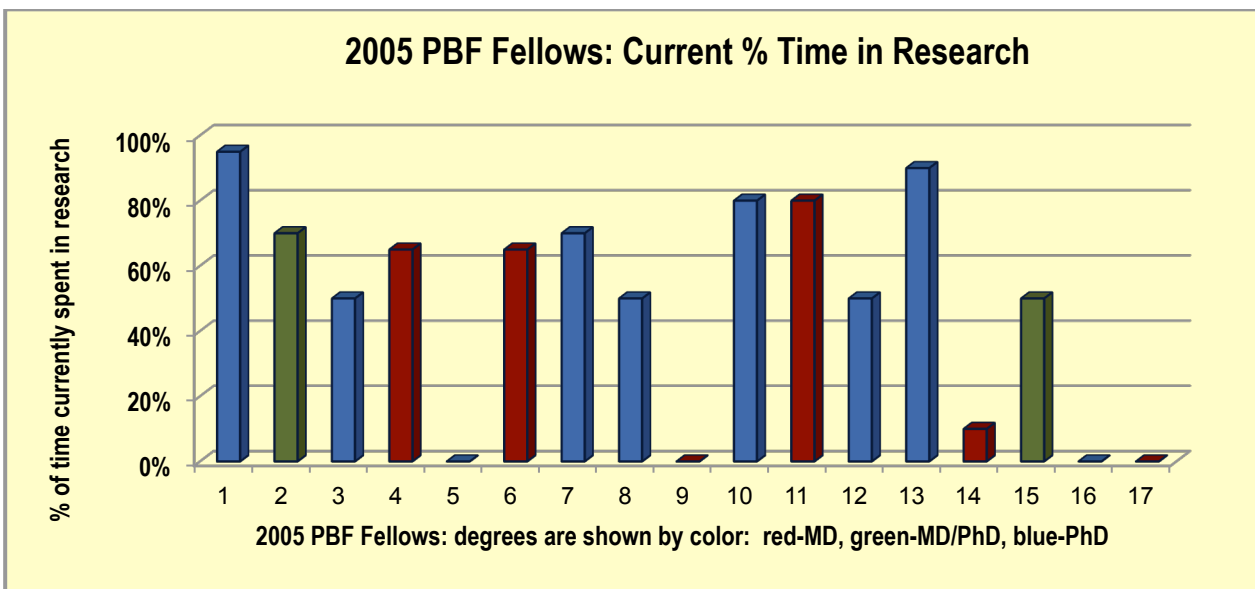
P A R K E R B . F R A N C I S
F E L L O W S H I P P R O G R A M

Survey of 2005 PBF Fellows

Conducted in June-August 2013

We are happy to report a 100% survey response rate from the fifteen 2005 PBF Fellows who completed their PBF Fellowship in June 2008.

The chart below shows the 2005 PBF Fellows by the percent of time currently spent in research; the degrees held are shown by color, red for MDs, green for MD/PhDs, and blue for PhDs.



For comparison with the 2005 PBF Fellows, Table 1 below shows the five-year post-PBF Fellowship retention rates in academic research for the 2003 and 2004 PBF Fellows and the overall retention rate for the 1976-2006 PBF Fellows who responded to our 2009 survey. The 2003 and 2004 PBF Fellows reported a high degree of retention in academic research (100% and 93% respectively). The 2005 fellows have a somewhat lower retention rate (76%), as noted in the above summary.

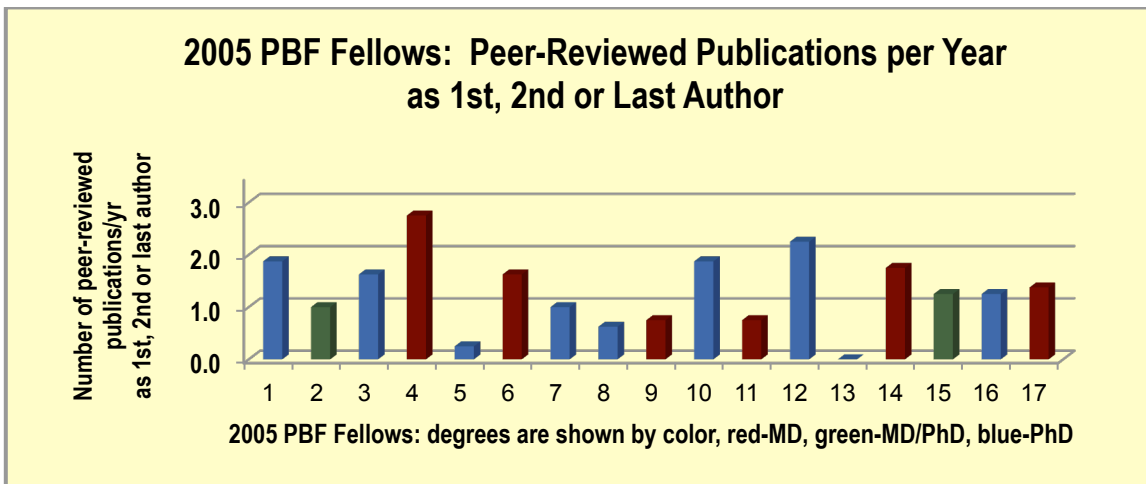
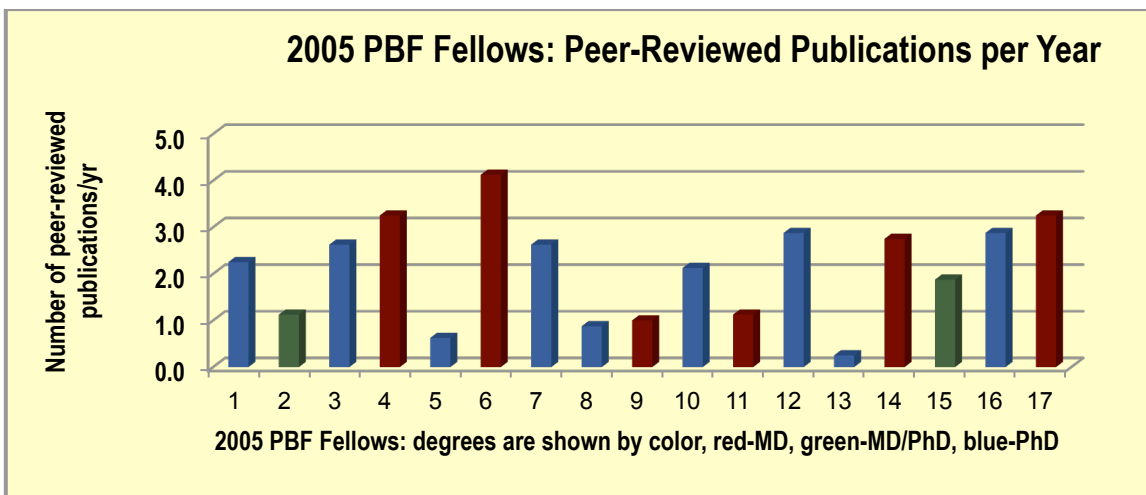
TABLE 1: Retention rates in academic research for PBF Fellows						
Shown are five-year retention rates for 2003-2005 fellows and overall retention rate for 1976-2006 fellows						
Survey Group	n	Past PBF Fellows still in academic research	<25% effort	≥ 25% effort	≥ 50% effort	≥ 75% effort
1976-2006 Fellows	365	79% (n=287)	12% (n=45)	66% (n=242)	52% (n=191)	31% (n=113)
Class of 2003	12	100% (n=12)	8% (n=1)	92% (n=11)	83% (n=10)	50% (n=6)
Class of 2004	15	93% (n=14)	13% (n=2)	80% (n=12)	80% (n=12)	40% (n=6)
Class of 2005	17	76% (n=13)	6% (n=1)	71% (n=12)	71% (n=12)	24% (n=4)

2005 PBF Fellows Survey conducted June-August 2013

With respect to publication productivity, the overall productivity has been high with 285 peer-reviewed publications in the eight years since the beginning of their PBF Fellowship. Thirty-five percent (6 of 17) of the 2005 PBF Fellows group have publication productivity higher than the averages found in our 2009 survey of 365 PBF Fellows from years 1976-2006 and sixty-five percent (11 of 17) have publication productivity higher than the average found in our 2011 survey of twelve 2003 PBF Fellows (see Table 2). The publication productivity of the 2005 PBF Fellows falls below that of the 2004 PBF Fellows because two of the 2004 PBF Fellows have exceptionally high publication productivity.

TABLE 2 Peer-Reviewed Publications per Year			
Survey Group	n	Average Pubs/Yr	Average Pubs/Yr as 1 st , 2 nd , or last author
PBF Fellows, years 1976-2006	365	2.7	1.8
PBF Fellows, class of 2003	12	1.7	1.3
PBF Fellows, class of 2004	15	3.9	2.1
PBF Fellows, class of 2005	17	2.1	1.3

The two charts below show for each fellow the number of peer-reviewed publications per year and the number of peer-reviewed publications per year in which the fellow is either 1st, 2nd or last (senior) author.



2005 PBF Fellows Survey conducted June-August 2013

A number of the reported publications appear in high-impact scientific journals (see Table 3 below). A scientific journal's impact factor is a measure reflecting the average number of citations to recent articles.

TABLE 3: 2005 PBF Fellows: Peer-reviewed publications in high-impact journals since PBF Fellowship		
Journal	Impact Factor	Number of Publications
New England Journal of Medicine	51.66	4
Lancet	39.06	1
Nature Medicine	22.86	2
American Journal of Respiratory & Critical Care Medicine	11.04	13
Proceedings of the National Academy of Sciences	9.74	3
Journal of Immunology	5.52	3
American Journal of Respiratory Cellular & Molecular Biology	4.15	11
Am Journal of Physiology: Lung Cellular & Molecular Physiology	3.52	22

The fifteen 2005 PBF Fellows have received \$24.67M direct research dollars in the eight years since their PBF Fellowship award. The cost of supporting this group of fellows was \$2.24M, yielding a multiplier (ROI) of 11.01. The chart below and Tables 4 show data on direct research dollars received in the eight years following the PBF Fellowship start date.

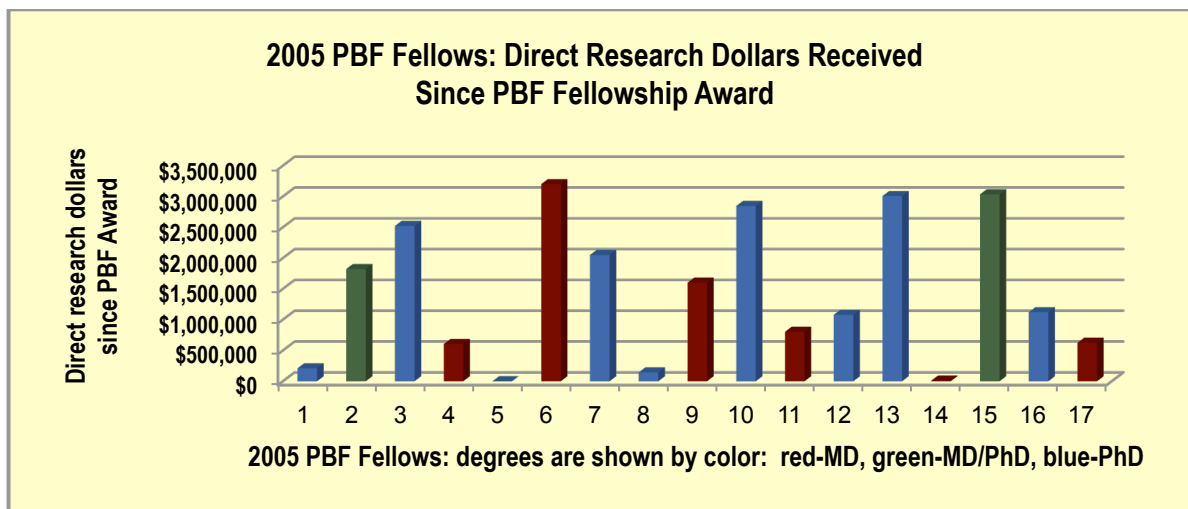


TABLE 4 Direct research dollars received during 8-year period following PBF Award start date				
Survey Group	n	PBF Funding for Fellows Group	Total research dollars rec'd by survey group since PBF Fellowship	ROI
PBF Fellows, class of	12	\$1.73M	\$20.78M	14.5
PBF Fellows, class of	15	\$1.86M	\$27.83M	14.7
PBF Fellows, class of	17	\$2.24M	\$24.67M	11.0

CONCLUSIONS

The 2005 PBF Fellows have been productive, both in terms of publications and grant funding. Seven of the 17 respondents have received one or more NIH K or R level awards. The seventeen awardees report receiving more \$24.7M in direct research funding in the eight years since receiving the PBF Fellowship award. The cost of supporting this group of fellows was \$2.24M. In other words, with an ROI of 11.0, this group has already received more than eleven times the research funding the Francis Family Foundation invested to support their fellowships.

Comments from the 2005 PBF Fellows about what the PBF Fellowship has meant to their careers:

I would like to express my deepest gratitude to the Parker B. Francis Foundation for supporting me during my transition period from post-doctoral fellow to research assistant professor. I feel it has been invaluable, not only for providing funding in a time of economic hardship, but also for providing time for me to continue to develop as an independent researcher.

The PBF Fellowship was instrumental in developing my research career. Specifically, the PBF Fellowship allowed me to have protected time to both develop the engineering techniques we used to study lung biology and disease and it allowed me time to develop new skills in molecular/cell biology and to use these skills to answer important questions about how mechanics influence lung biology. It is also noteworthy, that the experiments performed during my PBF award were the first to show how changes in cellular mechanics could prevent lung injury and this provided an important set of preliminary data for future grants from the NSF in this area.

The PBF Fellowship played a major role in my obtaining a faculty position and research funding from other agencies. The PBF Fellowship support is greatly appreciated!

The PBF Fellowship provided a critical bridge for me between the end of my fellowship and the awarding of my K08 grant. There is a good chance I would not be in academic medicine today if I had not been awarded a PBF Fellowship.

The PBF Fellowship was instrumental in developing my ability to embark on clinical trials for tuberculosis. It afforded the protected space to begin this process and served as an important link from my doctoral training to my establishment as an independent investigator.

The PBF Fellowship has been key in advancing my career. The PBF Fellowship allowed me to work in the laboratory of a world-renowned leader in the study of neural control of breathing, where I acquired a solid training and structured thinking.

The PBF Fellowship was a critical bridge between fellowship and R01 funding when I was ineligible for a K award as a Canadian citizen.

2005 PBF Fellows Survey conducted June-August 2013

The PBF Fellowship award helped me transition efficiently to a faculty position and provided me with the funds to accumulate enough preliminary data to successfully compete for an R01 award from the NIH.

The PBF Fellowship award definitely helped me to sustain my academic career.

The PBF fellowship was instrumental in assisting and providing the resources necessary for me to take first independent step to pursue extramural grants and establishing my scientific career.

PBF Fellowship award allowed me to stay in academic science and initiate our current research.

The PBF Fellowship Program was the first program that supported my research endeavors in the early (and critical) stages of my career. While the focus of my PBF project was quite different than my current work, the methodology learned has been invaluable for my current career.

The PBF Fellowship allowed my university to commit initial funds towards the development of my career. It also strengthened my application when I interviewed at other institutions; those interviews resulted in the commitment of a substantial startup package for my lab. The PBF Fellowship resulted in my winning a national AHA Scientist Development Grant in the last year of my PBF. Because of the current funding climate and competing responsibilities, I have not yet succeeded with the NIH, but I continue to present and publish basic bench research that evolved directly from my initial PBF award.

The PBF fellowship taught me how to write a fundable grant application and was instrumental in my progression from post-doc to faculty.

The PBF Fellowship was very important in helping to get my academic career started. It led to my faculty appointment and then successful K08 application. Eventually, my career has focused more on administration, but the PBF Fellowship was important to help launch my career at the end of my training.